

**Demand Reduction Efforts  
Natural Gas Market Outlook  
2006-2016 Workshop  
Sponsored by CPUC and CEC  
December 9, 2003**



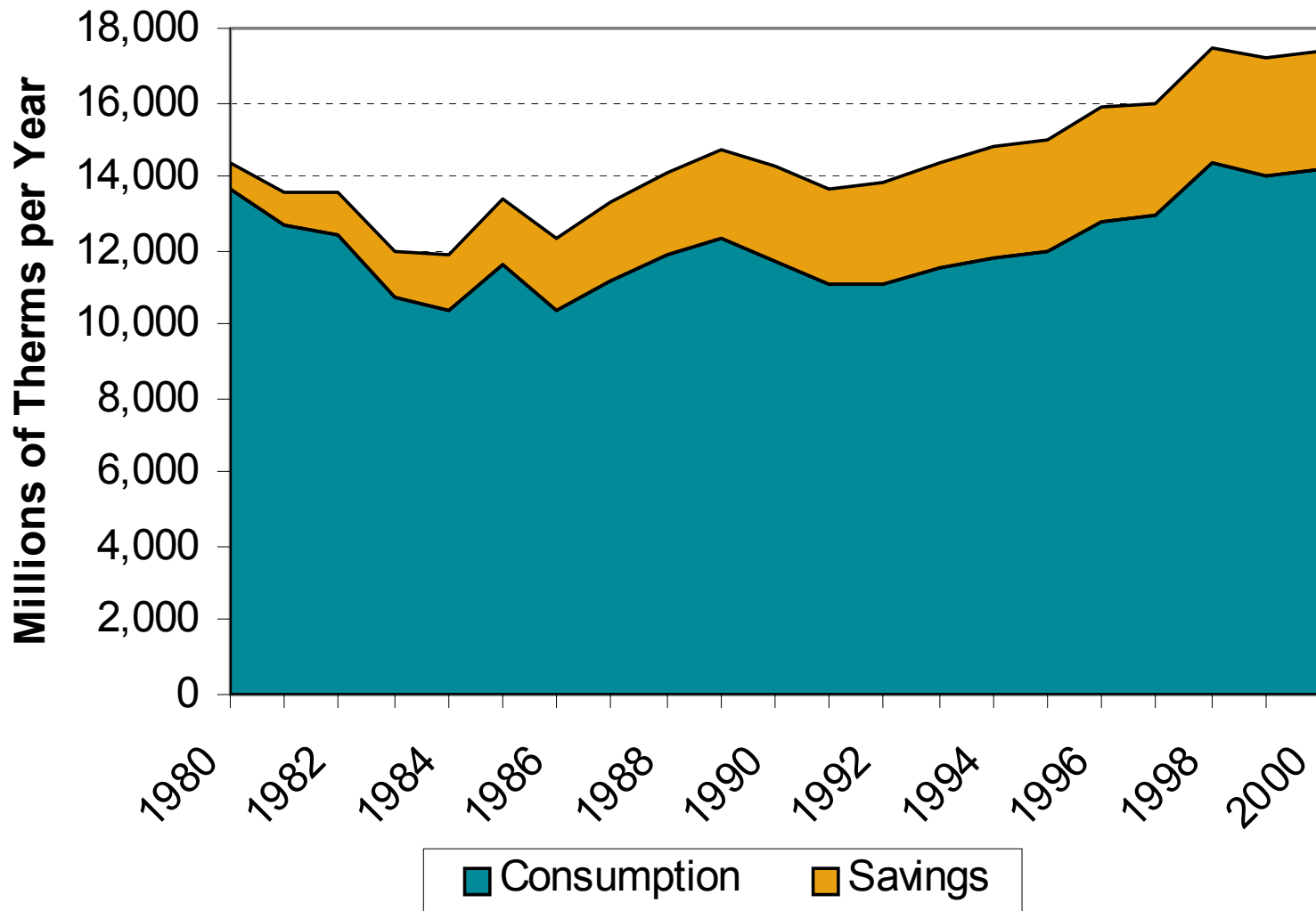
*Pacific Gas and  
Electric Company™*

**Dave Hickman**  
Manager, Customer Energy Management

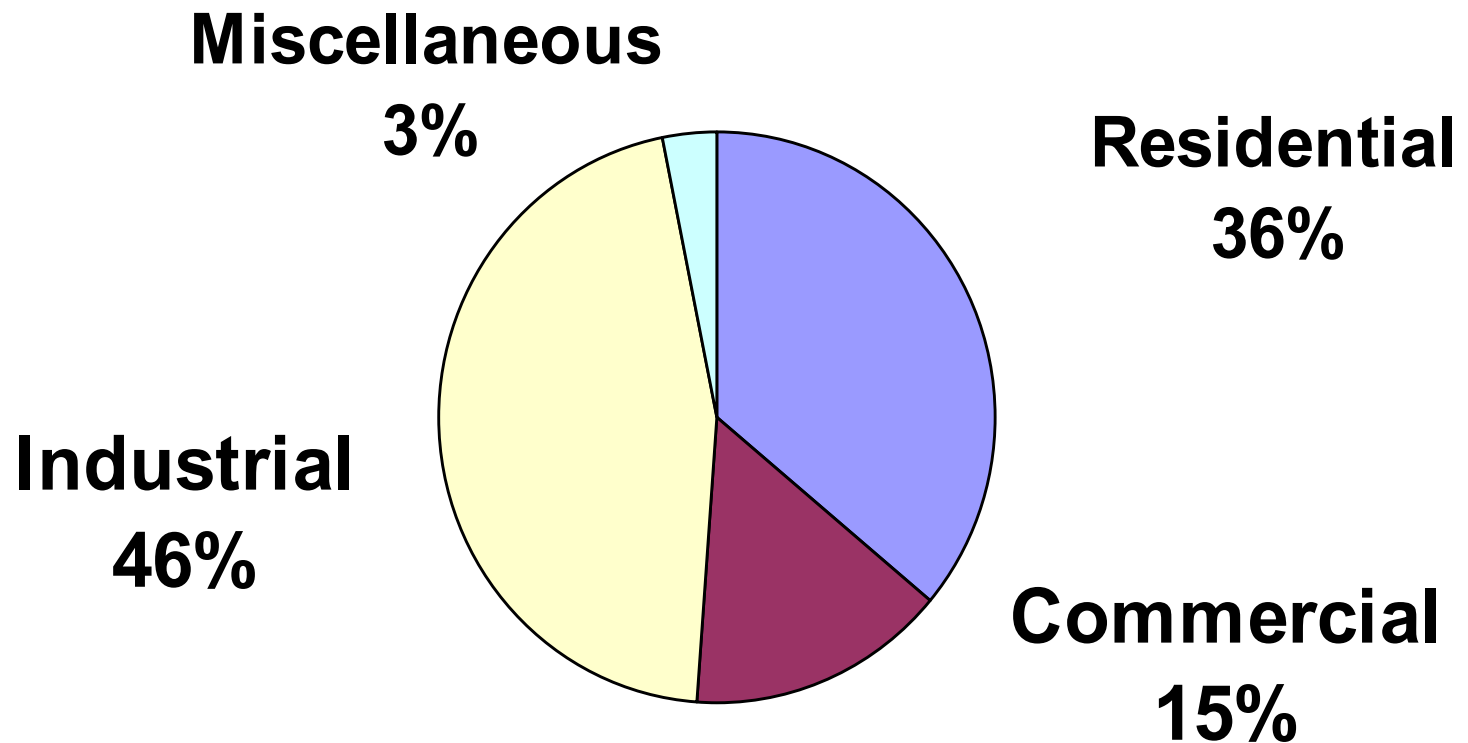
# Energy Efficiency – Has it reduced demand? Can it in the future?

- Over last 25 years in California
  - Saved Approximately 2,000 million therms (Mth)
  - Savings split between utility energy efficiency programs and state standards
- Savings potential remains high (**examples**)
  - **Commercial Sector:**
  - **Residential Sector:**

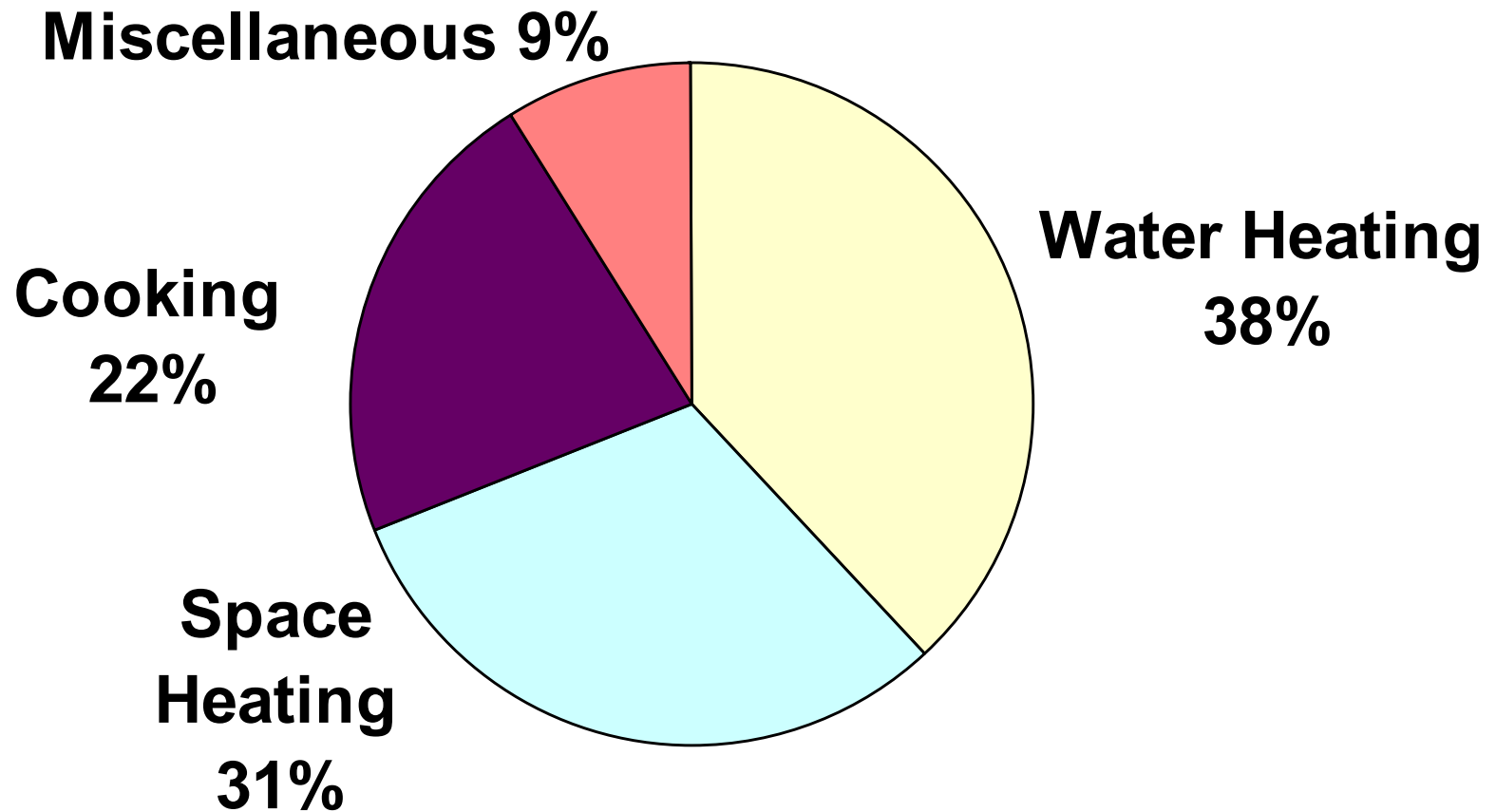
# Cumulative Impact of California Natural Gas Efficiency Programs & Standards



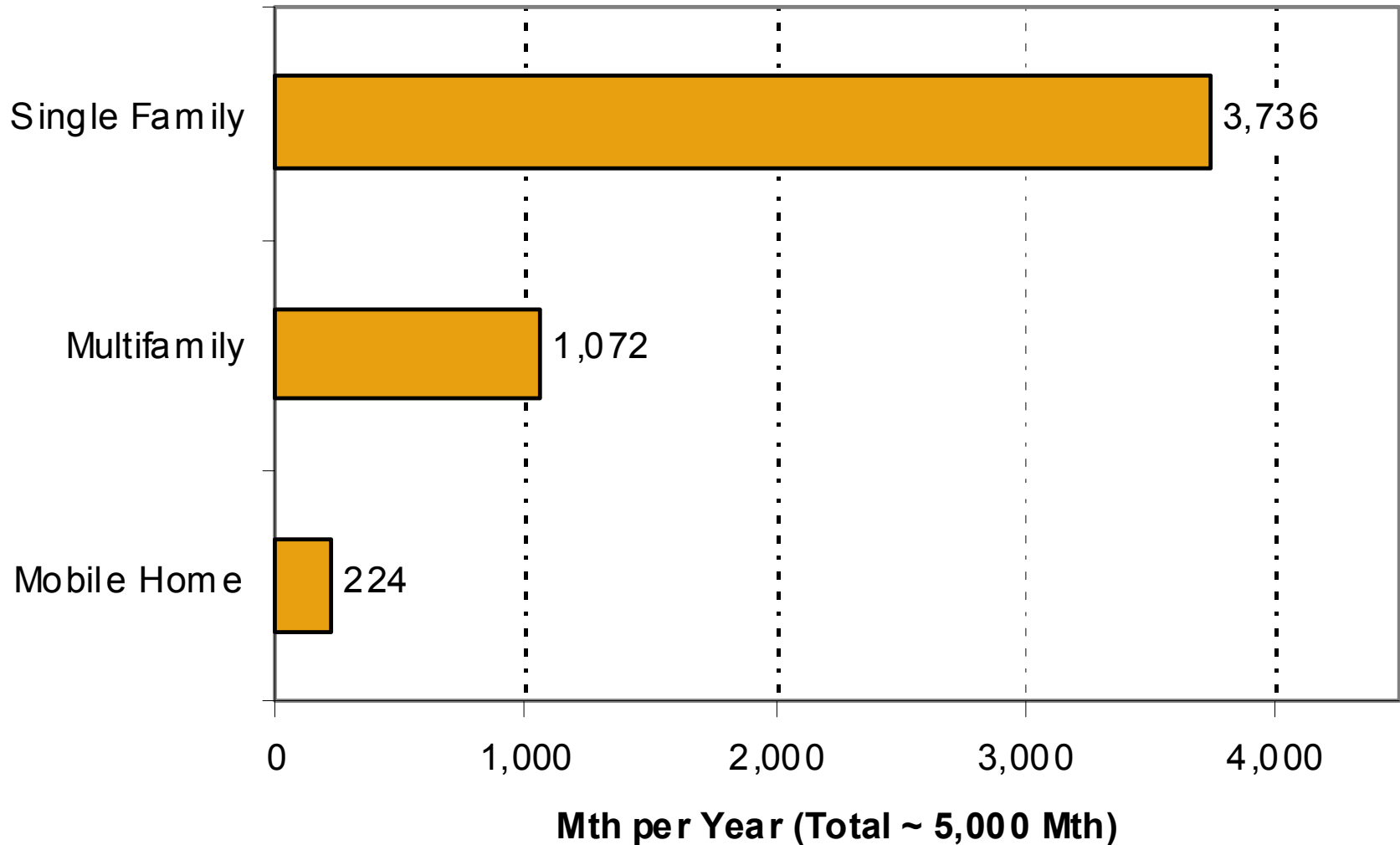
# California Natural Gas Usage by Sector



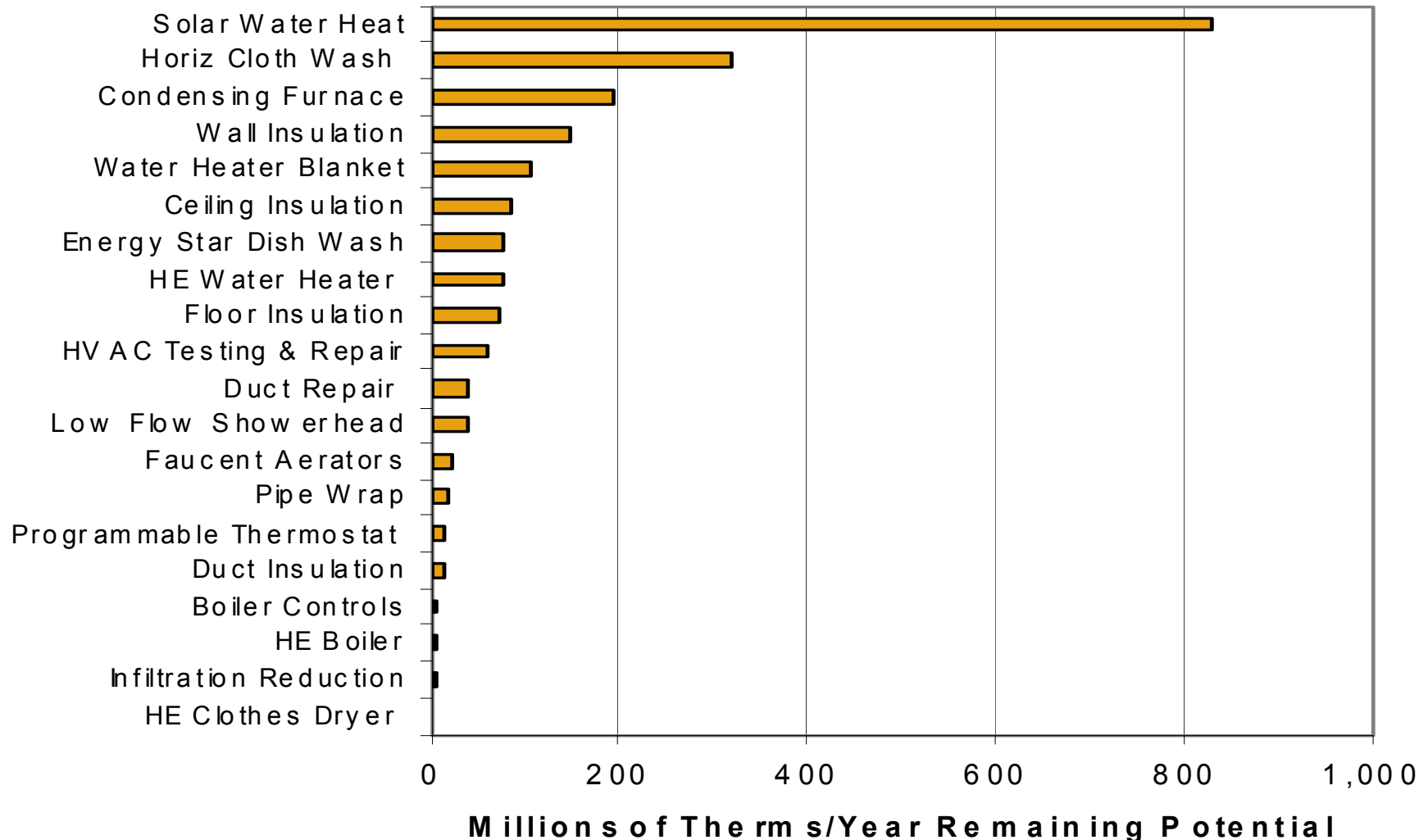
# California Natural Gas Usage by End Use



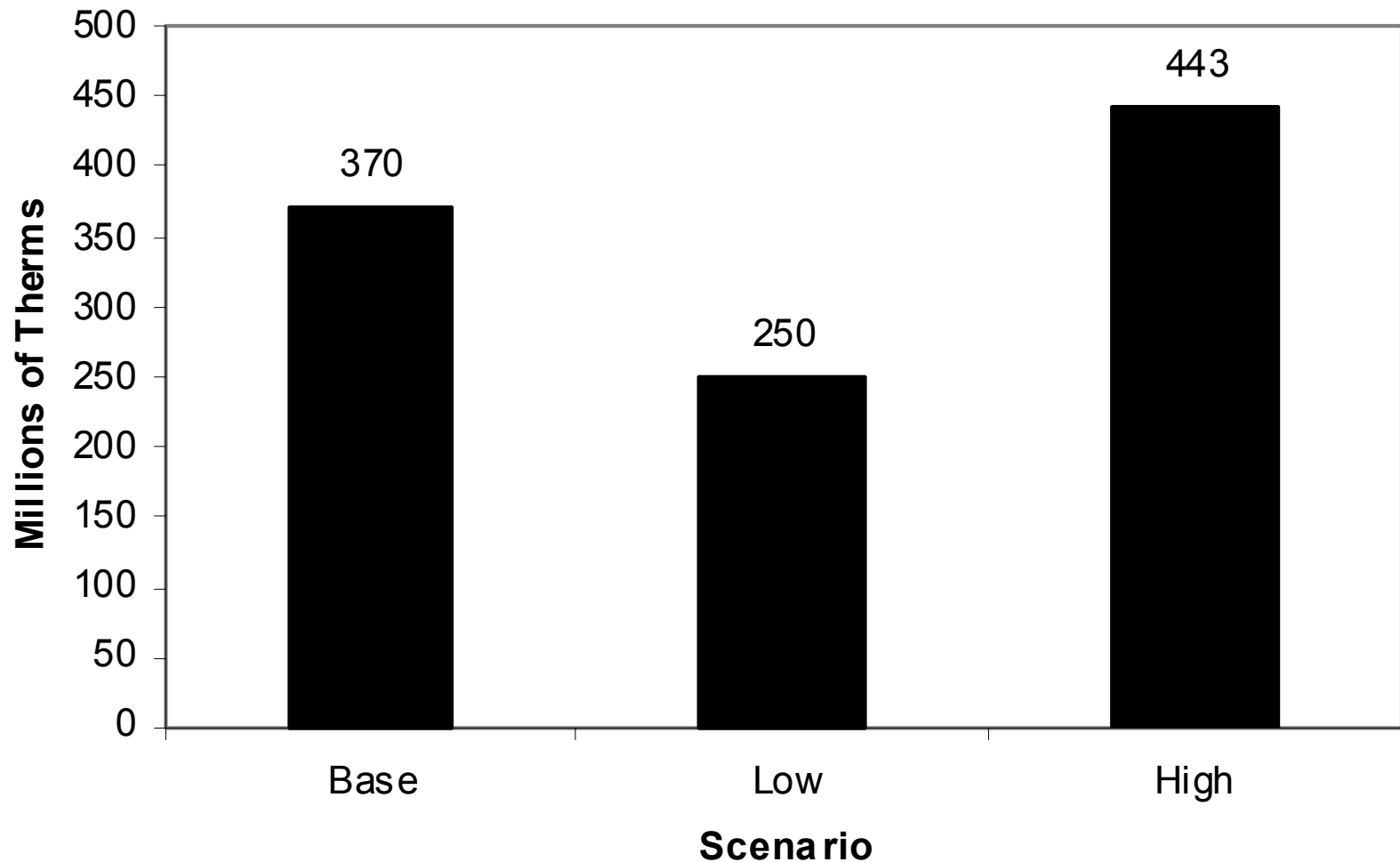
# Residential Natural Gas Consumption by Building Type



# Residential Natural Gas Savings Potential by Measure

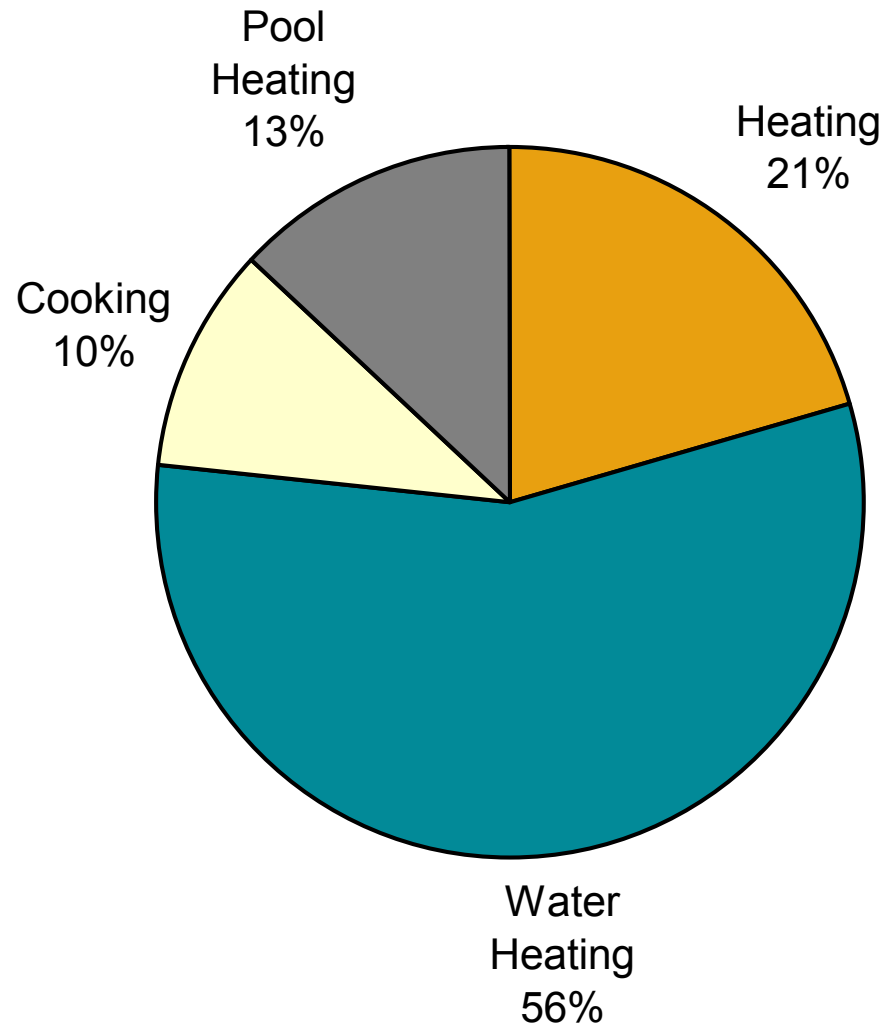


# Residential Natural Gas Economic Potential By Energy Cost Scenario

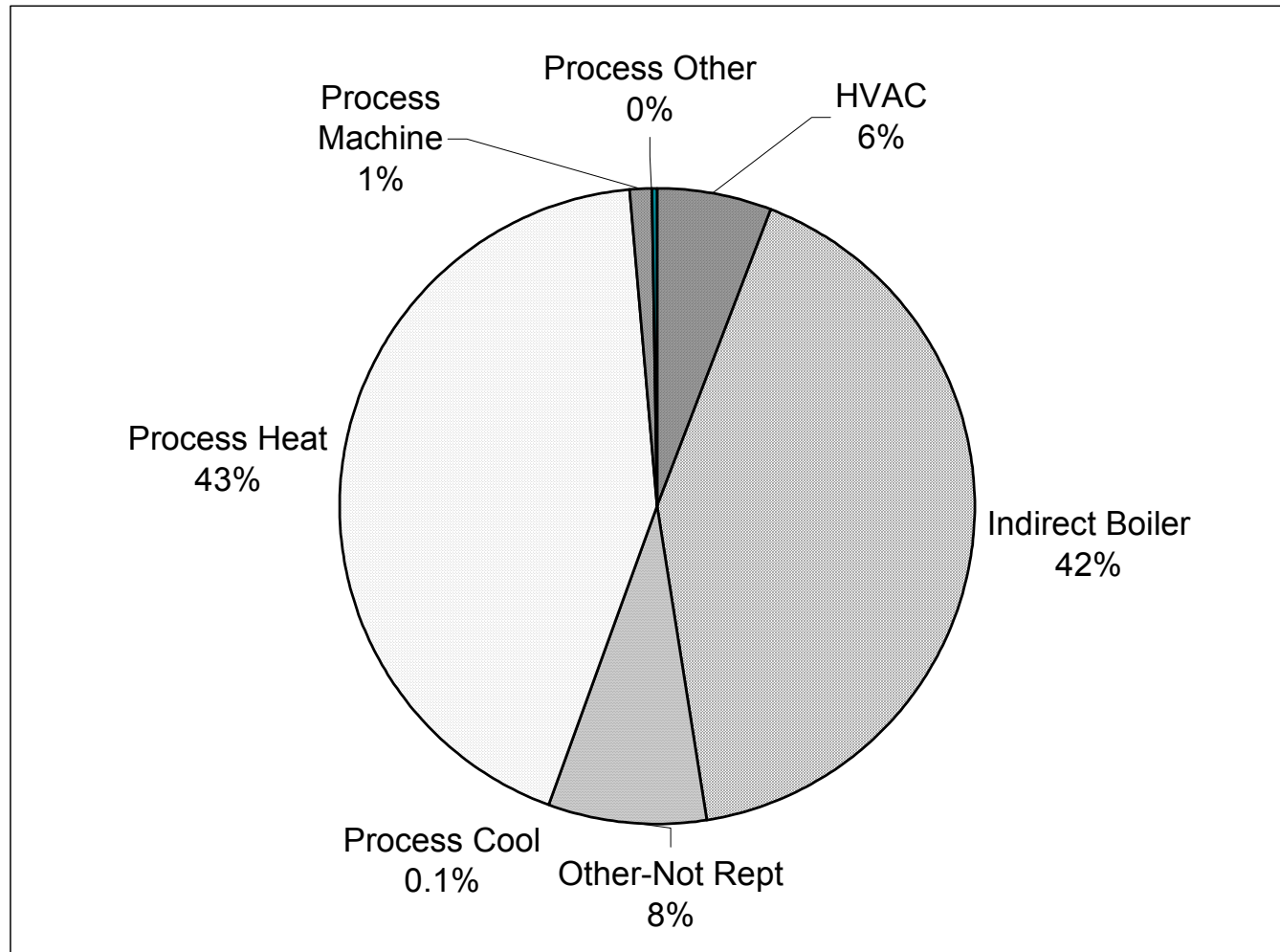




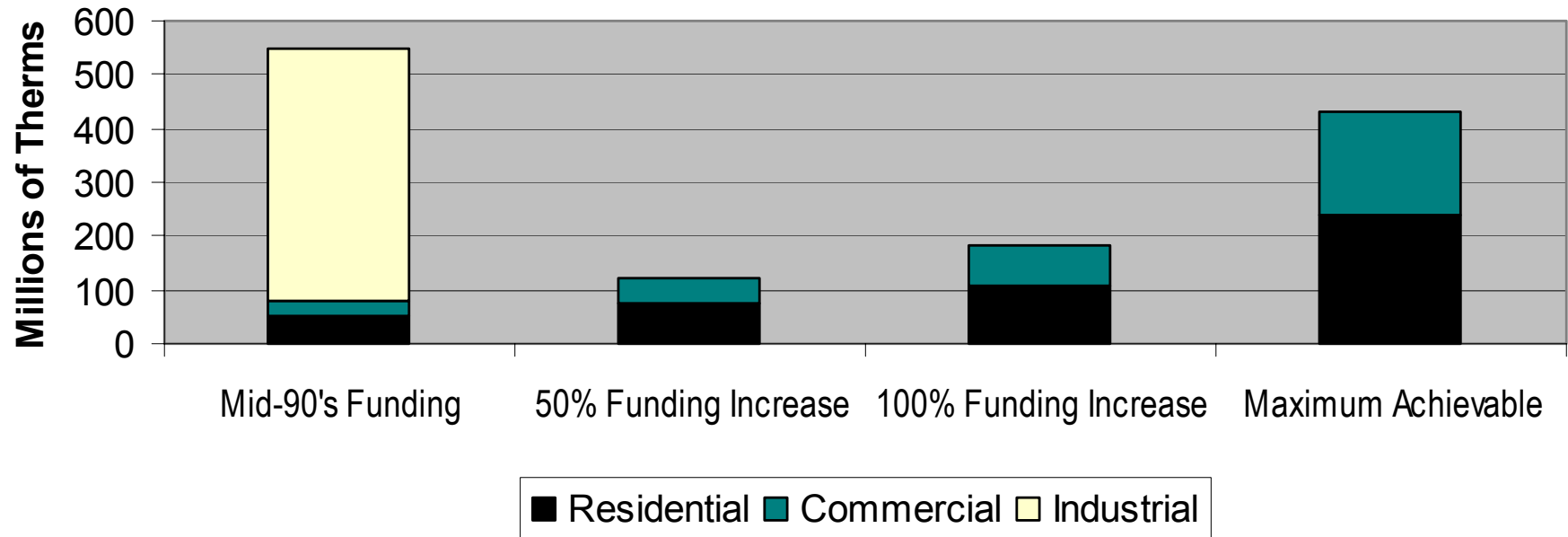
# Achievable Commercial Natural Gas Savings (by End Use)



# Manufacturing End Use Breakdown of Natural Gas Consumption

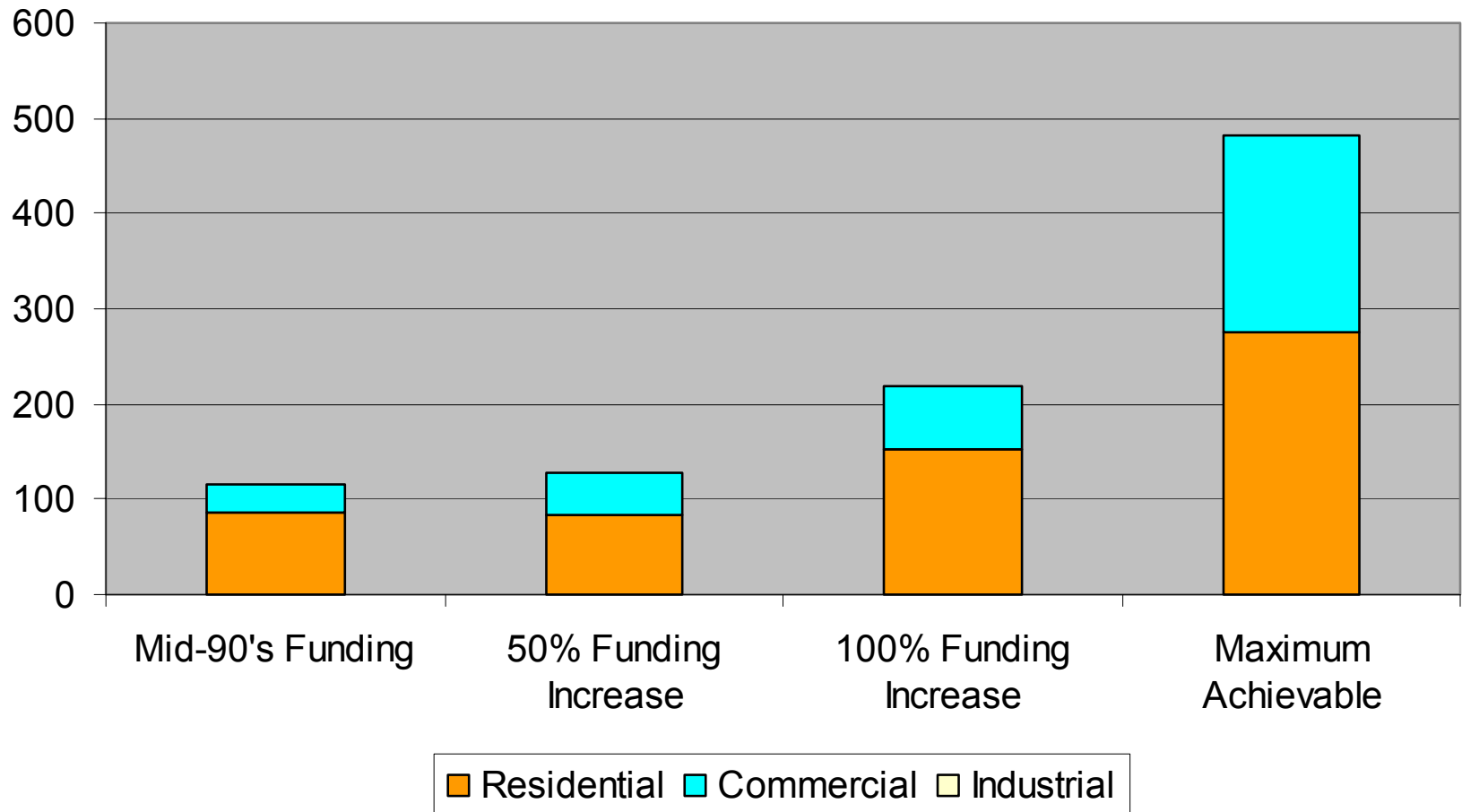


# Natural Gas Savings Potential Base Energy Costs

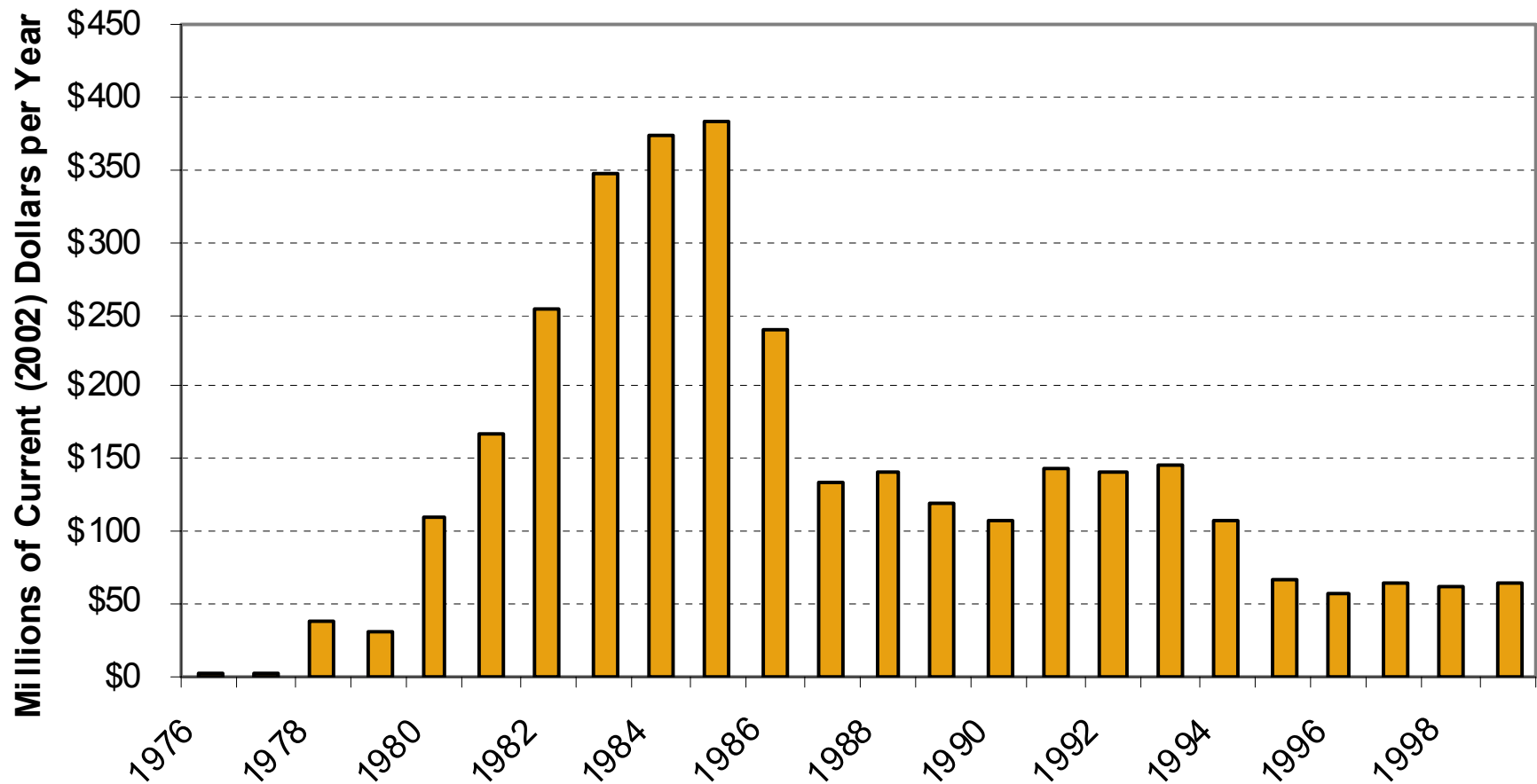


# Natural Gas Savings Potential

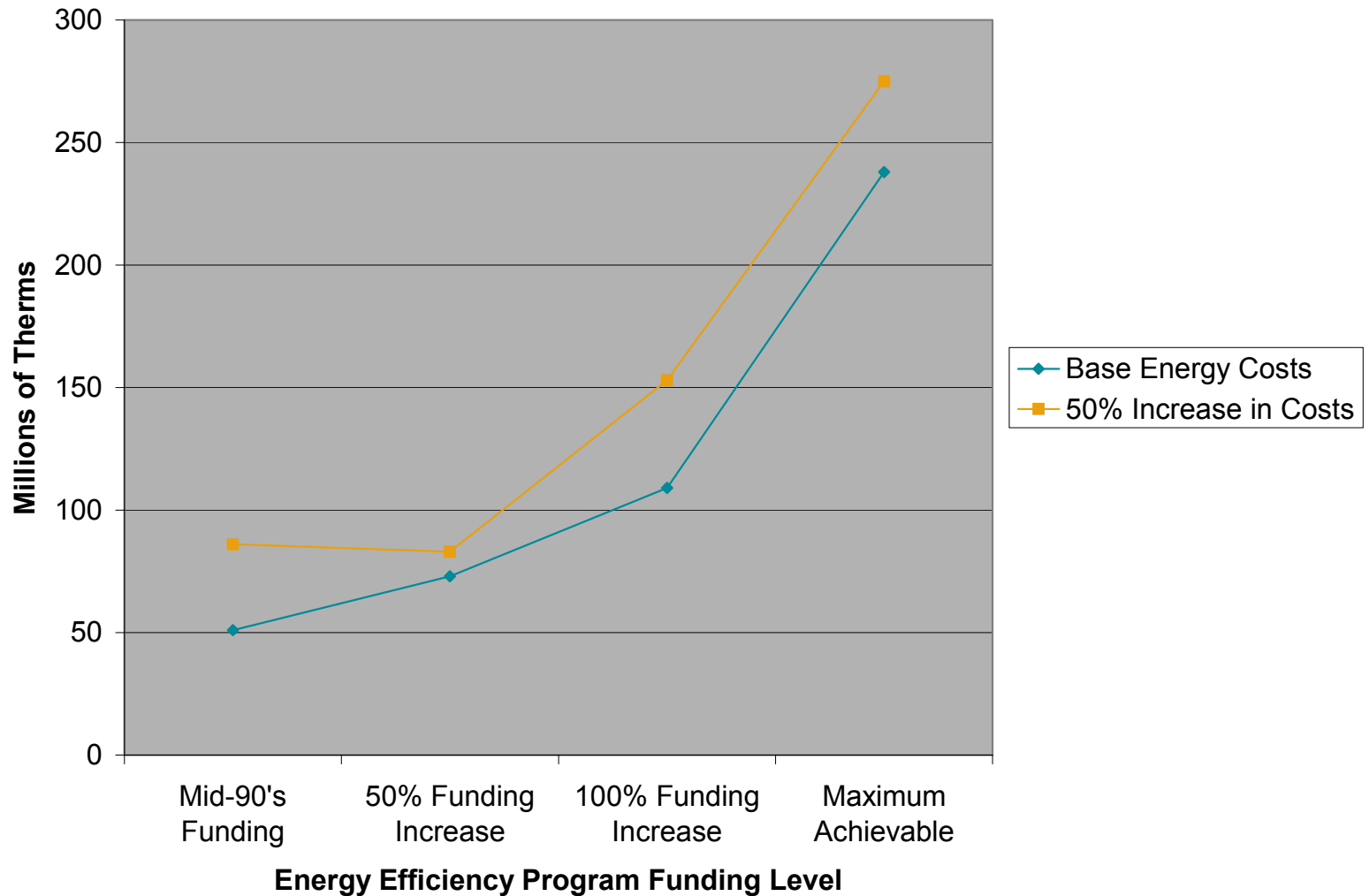
## High Energy Costs



# Annual Natural Gas Energy-Efficiency Program Expenditures for Major IOUs



# Potential Residential Natural Gas Energy Savings



# Commercial Sector Savings Potential

	<u>Mth</u>	<u>TRC</u>
Continued Current	30	1.39
~ 50% Increase	49	1.46
~ 100% Increase	75	1.36
Maximum Achievable	193	1.36

**Are Expanded Investments in Natural Gas Energy  
Efficiency a Good Idea? Yes!**